



USERS' NEWS

AUGUST, 1981

VOL. 2, NO. 7

HANDBOOK INFO.

Several members of 80-COMPUTER USERS OF HOUSTON have inquired as to the current status of the planned membership handbook.

Only about 50% of our group has returned the completed survey forms which will be used to compile the handbook.

FINAL DEADLINE for returning the completed survey forms is SEPTEMBER 15, 1981.

At that time, the compiling of the information will be completed and it will be prepared for printing.

Information from any survey forms returned after September 15th will NOT be included in this issue of the membership handbook.

Members who fail to supply information for the membership handbook will not receive a copy of the handbook.

Survey forms will be available at the August 5th meeting.

For those unable to attend the meeting, but who wish to be included in the membership handbook, contact the USERS' NEWS Editor at 663-7293 between 7:00 & 11:00 p.m. for a survey form.

Return completed survey forms to:

USERS' NEWS, P.O. BOX 20000 #220, HOUSTON, TX. 77025.

Questions regarding the deadline for submitting information for the handbook should be directed to the USERS' NEWS staff.

The handbook's format will depend partially on membership response as to size of the handbook and as to how it will be bound.

The format chosen will also be dependant upon feasibility and cost for printing the handbook.

Any input as to how the membership handbook should be formatted will be appreciated.

At this time, it appears that the handbook will be 5½ x 8½, have a heavy paper cover, have a blank page after each alphabetized section for new member information, and bound by a plastic spiral comb binder.

Initial plans are for the producers of USERS' NEWS to take care of expenses for preparing and printing the handbook.

Anyone wishing to help defray expenses in producing the handbook should contact the USERS' NEWS Editor.

Anyone having suggestions on how to handle the handbook expenses, contact the Editor.

NEXT MEETING

Date: August 5, 1981

Time: 7:30 p.m.

Location: SCHOOL OF PUBLIC HEALTH, UNIVERSITY OF TEXAS

Program: Surprise!

VENDOR'S SLOT: Discussion of new books on the market...by a representative of the Radio Shack Computer Center on Southwest Freeway.

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TRS-80 is a trademark of Tandy Corp.

A NOTE FROM THE PRESIDENT BY JOE STANFIELD

This past month I have had a very pleasant surprise....the Radio Shack Computer Centers have actually shown the club how co-operative they can be. I have visited two of the computer centers and talked to one other on the phone. All have expressed a desire to have enough information to be able to direct their customers to our meetings. Some have even advanced the possibility of helping out with plans and projects we have discussed.

This attitude shows that some of the R/S salespeople recognize that service to their customers after they have sold that first piece of equipment means additional business. If you get a chance to go by one of the centers, put in a plug for the club. Also, we will have some information on club meetings available for distribution. Please pick up a few and pass them along to interested parties.

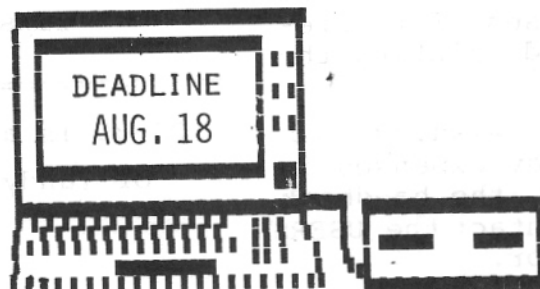
I need some feedback from the members about expansion of the club. It is my personal feeling that we would all benefit by increasing in size, but I need to hear from you. There isn't enough time to debate this at the meetings, so write me a letter or give me a call....

My address is:

JOE STANFIELD
14507 CYPRESS CREST
CYPRESS, TX. 77429

WORK: 466-3535
HOME: 376-4032

See you at the meeting.....



80-COMPUTER USERS OF HOUSTON meets the first Wednesday of each month. Anyone interested in microcomputers is welcome to join our group. Membership dues are \$5.00 per calendar year, which includes your subscription to **USERS' NEWS**.

USERS' NEWS

EDITOR: **Brigitte Schaefer**

PRODUCTION: **John Schaefer**

* * * * *

A NOTE FROM THE PRESIDENT:
JOE STANFIELD

* * * * *

USERS' NEWS is published monthly by **80-COMPUTER USERS OF HOUSTON**. Mail contributions, letters to the Editor, comments, etc. to:

P. O. Box 20000, No. 220
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* * * * *

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HISTORY OF 80-COMPUTER USERS OF HOUSTON (INFORMATION COMPILED BY B. SCHAEFER)

Several people who have become members of our group have asked questions in regard to the background of the club. So, here's a brief summary of what our club is and has been in the past.

KIP BARTRAN got six people together at his home on October 15, 1978, to discuss such questions as: "Should we form a computer club?".....What has happened to other attempts to start a group?...How do you START a club, anyway?"

Of the original six, KIP and BEN TAYLOR are still active members....JOHN HANSON is the Manager of the Radio Shack Computer Center on Southwest Freeway (after being a Professor of Computer Science at a local university at the time the "club" was formed)..and the other three have apparently disappeared into the woodwork. KIP got the group together in the conference room at the Bellaire Chamber of Commerce building, and the TRS-80 MICROCOMPUTER GROUP OF SOUTHWEST HOUSTON was formed. For the first year, attendance fluctuated around 20-35, with about 10-15 attending the meetings steadily.

KIP and ROGER RABB were the Presidents for the first two terms during the first year of the group's existence. At that time it was decided that the meetings should be informal and informative. During this time, the first half hour to hour of each meeting was allocated for discussing organizational and procedural matters.

Then in December 1979, along came JIM HARRELL, who was elected President on a platform of "COMPUTER MEETINGS ARE FOR COMPUTER INFORMATION". It was then that organizational matters were taken care of by the "Executive Committee", the officers of the group. Aiding JIM were BILL YOUNG as Treasurer and KIP as Secretary. They agreed to appoint special committees as needed.

During that time, the first hour or two of each meeting was under the stern hand of the President with members mixing and mingling to exchange information during the latter part of the meeting. It was decided that the heretofore mentioned official positions would last only 6 months, with election of officers held during the December and June meetings. Officers were: PRESIDENT, VICE-PRESIDENT/TREASURER & SECRETARY.

In March of 1980 the Bellaire Chamber of Commerce terminated the club's rent-free arrangement. In June 1980, the club meetings were moved to a lecture hall at St. John's School on Westheimer, thanks to ED ESCUDERO, a chemistry teacher there. The school was an excellent place to meet, however the school requested \$ 50.00 a meeting and would be closed for the summer. Sooooo....LINDSEY REED, a lecturer and scientific programmer for the University of Texas School of Public Health arranged for the club to get together where it is now meeting. Considering the number of people attending grew by 5-15 with each meeting, the change in meeting location was inevitable to allow enough space for everyone. For the first year, the membership stayed at about 30, with meeting attendance at about 20. The spring of 1980 brought a bit of computer-fever, and membership began increasing. The first of 1981 saw about 100 members of our group, and as of press time, there were 137 members in our club, and our membership continues to increase each meeting. Our club has a disk library and a tape library with several interesting programs.

Why is our club here? To share our knowledge and experience with computers. This group gives computer users a way to get together with others for communication and mutual help...that is the purpose of our monthly meeting. Members and those attending the meeting observe and learn from demonstrations or presentations by members or by outside speakers. After the presentation, a "Round Robin" is held...a period of time for everyone to tell those attending what he is currently doing, if he needs help, if he has found great hardware or software, etc... This is followed by what is affectionately called the "bull session"...a time for those attending to get together about something mentioned in the Round Robin or to meet with those with similar interests. Soooo...WELCOME TO 80-COMPUTER USERS OF HOUSTON!!!!

THE CCA DATA MANAGEMENT SYSTEM
A REVIEW
by
W. S. (Bill) Grubbs

The CCA Data Management System is a series of disk based programs in Basic language for the TRS-80 Model I or Model III. The programs provide a method for storage and retrieval of information that might ordinarily be kept in a ledger or file. Record storage is random accessed for speed and convenient operation.

Specifically, the system can be used to create and maintain a file of information which "lends itself to being kept in a series of records with the same entries in each record". An example of this type of file is the telephone book with records of the subscriber's name, address and telephone number. Another typical application is a type of inventory.

The system should, and does, provide for updating presently stored records, adding new records and deleting old records. A search of the stored records for specific information is allowed as well as provisions for ordering the file by the values contained in the records. Routines are also available to provide the user with line printer hardcopy.

The following favorable system features have been noted by the writer:

1. Documentation is excellent, superior to several higher priced systems. The user is assumed not to be a computer illiterate but skill requirements are minimal.
2. Continued support by the publishers is outstanding. I recently received a new system (unordered), which replaced and superceded the programs I had originally purchased. The new system corrected the few "glitches" I had found. There was no charge for the update.
3. Programs are reliable and dependable. They perform beyond the advertised capabilities.
4. The system is "friendly" with over 100 well documented interactive messages to the user.
5. Information is provided by the publisher which allows the user to customize his own output programs.

The following features of the system leave something to be desired:

1. The sort/merge function is relatively slow. 450 records, 125 bytes per record require about 20-25 minutes. This is, I am certain, a compromise by the author to avoid machine language programming to facilitate user programming.
2. The search routine lacks an optional abort feature. The entire file must complete the search routine even though the user may have located the information.
3. The printer routines are, at best, adequate. The user will probably want to customize these.
4. Disk spanning storage capability is not supported and this somewhat limits record storage and handling.

In summary; the system, in view of its moderate price, must be ranked as a superior example of a marriage of outstanding documentation and careful programming. I would not hesitate to recommend it to anyone with moderate data handling requirements.

NETWORKS & BOARDS
by B.C. Taylor <70070,234>

COMPUERVE/MICRONET RECAP:

224-3835 is the current Houston phone number

You can skip the opening Menu by entering a Control-P. --Or use that to cut short any menu or section during its receipt.

At the CompuServe "!", to go directly to the MNET-80 Board, enter:

MIC

R MNET80

MNET-80 is of course the nation-wide TRS-80 Users Club. WIZ-10 says that he (or MicroNet) is taking over this board which Richard Taylor started more than a year ago. The WIZ has completely re-written the code in a special programming language and expects it to operate even faster than Richard's version written in Fortran.

MicroNet is installing this code as the standard Bulletins Board Program for the 10 special Boards now running on MicroNet. (To see the Menu offerings a choice of any board, in "OK" mode enter: R SIGS) So once you've become familiar with the new battery of commands, sub-commands, and "options" (what, no Puts or Calls?) you'll feel at home on all the other Boards. Other Boards of interest to Radio Shack people are the VTOS, LDOS, and MicroConnection Boards.

If you've not been on MNET-80 lately, it's a good idea, as soon as the opening ris-a-ma-rol turns you loose with the cryptic word "Command:", to just press ENTER and receive the menu of possible commands. At any point while you're on this board, if you need help just enter "H" or HELP or even HELL.

You should definitely enter OP to summon up the "Optional Parameters" Sub-section. Here you can tell this Board that you want a 64-character line (that's why you got a rather odd display at first -- the Board assumes that you have an 80-column display). Tell it that you do or don't want it to pause at the end of 16 lines or 24 lines or whatever, etc. If you do not tell it "P" for "permanent", you'll need to do all this every time you log on. After running through its dozen possible settings, the OP asks:

Option:

and your entry would look something like this:

Option: NS;LL 64;NL 16;P

Note the space between the "LL" and the "64", etc. The OP will now repeat its menu showing YOUR parameters installed! To get back to the regular board, enter "T".

On the TEST-SIG board where we gave this new board its Beta testings, the WIZ remarked that you no longer had to pay Richard \$20 to join MNET-80. So perhaps anyone can leave a message now? Try it--and tell us.

=====

**HOU80 BOARD
331-2599**

Rick Castleberry's computer bulletin board is up and running again. He's had a lot of trouble because a childish fool kept crashing it -- deliberately. This kept many people from enjoying its usefulness in exchanging messages, valuable information, and desirable programs donated to its library. Rick has spent a lot of time and money on this board both for high-grade equipment and for the bulletin board program itself, and now he has had to buy another Bulletin Board program which he hopes will be more serviceable. As a member of our "80-Users" group, Rick makes this board available to all of us.

When you dial the number above, you'll hear a tone. After you put your phone on the modem, just wait a few seconds and it comes up running. Very nice!

(Editor's note: A profile of Rick's system will be in Sept.'s USERS' NEWS)

=====

The APPLE BOARD - 654-0759

--Invites your call. It's interesting...in a strange sort of way. Give it a try!.

=====

The DOW JONES NEWS/RETRIEVAL

--is a reality. Stock quotes and all the news on your broker's "broad tape" all day long, as well as financial statistics galore from Disclosure Online (10-K abstracts) and from the M/G Financial Weekly! You get in free if you already have the R/S Videotex package. With a password from Radio Shack you'll want to ask Dow Jones to change your display format from 34 to 64 characters/line...



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NOTES ON BASIC BY ROBERT EDEN

In the back of the Level II manual, a brief description of how BASIC stores program text can be found. This article will go into this subject deeper than the manual does. A thorough knowledge of BASIC is required. To conserve precious memory, not all program text is stored in ASCII (American Standard Code for Information Interchange). Instead all BASIC commands and functions are stored as TOKENS. Tokens are numbers above normal ASCII codes which BASIC uses for abbreviations. Tokens range from 129 (81 hex) to 250 (FA hex). The easiest(?) way to explain this is to write and examine a short BASIC program. Key in the following program under Model I, LII or Model III basic for compatibility.

```
10 FOR COUNT=17129 TO 32767
20 A=PEEK(COUNT)
30 PRINT COUNT,A,CHR$(A)
40 NEXT COUNT
```

Note: Model III users change the 17129 in line 10 to 17135. ****

Here is the output:

```
17129 3 :LSB OF NEXT LINE
17130 67 :MSB OF NEXT LINE NEXT LINE = 67*256+3=17155
17131 10 :LSB OF LINE NUMBER
      00 :MSB OF LINE NUMBER LINE NUMBER = 00*256+10=10
      129 : TOKEN "FOR"
      32 - : ASCII "space"
      67 C : ASCII "COUNT"
      79 O
      85 U
      78 N
      84 T
      213 : TOKEN "="
      49 1 : ASCII "17129" ("17135" MODEL III)
      55 7
      49 1
      50 2
      57 9
      32 - : ASCII "space"
      189 : TOKEN "TO"
      32 - : ASCII "space"
      51 3 : ASCII "32767"
17150 50 2
      55 7
      54 6
      55 7
17154 0 : END OF LINE MARKER
17155 18 :LSB OF NEXT LINE (REMEMBER 17155 FROM 17129?)
      67 :MSB OF NEXT LINE 67*256+18=17170
      20 :LSB OF LINE NUMBER
      00 :MSB OF LINE NUMBER 00*256+20=20
      65 A : ASCII "A"
      213 : TOKEN "="
      229 : TOKEN "PEEK"
      40 ( : ASCII "(COUNT)"
      67 C
      79 O
      85 U
      78 N
      84 T
      41 )
```

```

17169 00 :END OF LINE MARKER
17170 NEXT LINE....LET'S SKIP TO LINE 40 @ 17189
17189 49 :LSB OF NEXT LINE
      ° 67 :MSB OF NEXT LINE 67*256+49=17201
      ° 40 :LSB OF LINE NUMBER
      ° 00 :MSB OF LINE NUMBER 00*256+40=40
      ° 135 :TOKEN "NEXT"
      ° 32 - :ASCII "space"
      ° 67 C :ASCII "COUNT"
      ° 79 O
      ° 85 U
      ° 78 N
      ° 84 T
17200 00 : END OF LINE
17201 00 :LSB OF NEXT LINE
      ° 00 :MSB OF NEXT LINE

```

**** A zero next line address signals END OF FILE!!!!!! ****

MISC. NOTES:

The start address of Basic Text can be found at location
40A4 hex (16548) in LSB-MSB form.

The end address of Basic Text can be found at location
40F9 hex (16633) in LSB-MSB form.

A table of Basic tokens can be found on page "E/1" in the
LEVEL II BASIC REFERENCE MANUAL.

GOOD LUCK & MAY ALL YOUR POKES BE GOOD ONES...

--Robert



USERS' NEWS TIME AGAIN?
OH NO!

NEW PRODUCTS ON THE MARKET.....

According to the July 13th issue of ELECTRONIC NEWS, Radio Shack is introducing two new items for their micro-computer users.

A \$ 399.99 dot matrix printer for the TRS-80 Color Computer which can produce either a 80 or 40 upper and lower case eight inch line has been developed.

The printer runs at 30 characters per second and delivers dot-addressable high density graphics at 3780 dots per square inch.

It has an adjustable tractor feed for fan-fold or plain paper from 4.5 to 9.5 inches.

Interfaces for the new printer include an eight bit parallel for use with most TRS-80 computers or a switch-selected seven or eight bit RS-232 serial communication for up to 600 baud for use with the TRS-80 Color Computer.

The new TRS-80 communications multiplexer will allow a Model II computer to respond to information requests from up to 16 telephone lines.

The multiplexer also operates Radio Shack's Videotex terminal and other Radio Shack computers when equipped with Videotex software.

The full 16 line multiplexer is priced at about \$ 8,000.00 and the eight line multiplexer at about \$ 6,000. 64k of memory is necessary to use the multiplexer.

The multiplexer is available by special order only with no plans for stocking it at the Radio Shack centers.

The July issue of 80 MICROCOMPUTING reported on several new products to aid the micro-computer user.

POCKET TAPE I is a program in machine language which allows the TRS-80 Models I and III to read data tapes recorded by the pocket computer.

The Model I version requires an internal hardware interface to the PC tape format.

The version for the Model III may be used directly on a cassette or disk-based system.

Minimum system memory for either version is 16k.

DOUBLER II is an update of Percom's Doubler double-density disk system adaptor for the TRS-80, Model I.

The new version, as does the original, allows up to 364k of storage per side of a five inch diskette, which is four times that of an unmodified Tandy Model I drive.

The new version allows the Model I to use Model III diskettes. The original version did not have this feature.

Elgen Systems offers a transfer service for TRS-80 Color Computer owners so their programs on cassette can be put on a ROM cartridge, giving them instant loads.

This service is available for Color Basic or Extended Color Basic programs.

The programs on the ROM cartridge run instantly upon power-up and all memory is used for data storage or graphic displays.

RAMCHARGER is a circuit board which fits inside the Color Computer to increase its memory from 16k to 32k.

The completely assembled and tested circuit board is compatible with Color Basic and requires no special software.

No soldering or hardware modifications are necessary and the ROM Pak port is left free.

CLASSIFIED ADS

FOR SALE-Model III, 16k Level II, with cassette and Quick Printer I.... \$ 1,150.00...call Royce Bordman, 460-1500, 9-5.

* * *

FOR SALE---Radio Shack Quick Printer I...\$ 225.00 call Doug Tiner, 8-4:30-678-5063.

* * *

FOR SALE-Model III, 48k with double sided, double density disk drives ...serial interface... small amplified for games with sound...\$ 2,225.00. call Royce Bordman..... 460-1500 from 9-5.

* * *

FOR SALE-Exatron Stringy Floppy with misc. software....\$ 200.00...call Mike Hunt...448-8755... after 4:00 p.m. ONLY!

* * *

WANT TO BUY--Reasonably priced Percom Flippy 40 Track Disk Drive.... or will consider other 40 track drives....call Mike Hunt...448-8755... after 4:00 p.m. ONLY!

* * *

FOR SALE-Mattel Intelvision, including football...Armour Battle... Baseball.....and Black-jack...\$ 250.00.....call Royce Bordman, 460-1500.

MDX-2 System Expansion for TRS 80's

The new MDX-2 system expansion board from COMPUTEX provides more capabilities than any other system expansion currently available.

FEATURES INCLUDE

- Capability to build only what you need.
- Silk screened and solder masked P.C.B.
- Dip switches are used instead of hardware jumpers.
- No messy vertically mounted termination resistors.
- On board direct connect modem kit
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- RS232/20m.A. serial interface
- Real time clock kit
- Floppy disk controller kit
- 32K RAM expansion kit (less Ram)
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- MDX-2 printed circuit board
- Hardware and socket kit
- Centronics line printer port

\$39.95
\$17.95
\$17.95
\$17.95
\$31.95
\$11.95
\$3.95
\$29.95
\$74.95
\$19.95
\$8.95

Buy just the system expansion board and those kits you want, or save even more and buy the complete kit.

MDX-2 KIT COMPLETE
\$269.00

Model III Disk Drive Kits & Drives

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2. All necessary interconnecting cables
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4. Disk Drive Mounting Brackets
5. Internal Disk Drive Cable
6. Comprehensive installation and theory manual
7. 16K RAM

COMPLETE MODEL III DRIVE PACKAGES

These packages all include, the Model III Disk Drive Kit and the Micro Systems Software Model III DOS.

- M3DK-1 (2-TM100-1 Drives) provides over 350K Bytes storage 919.95
- M3DK-2 (2-TM100-2 double headed drives) provides over 700K Bytes storage 1,149.95
- M3DK-3 (2-TM100-3 80 track drives) provides over 700K Bytes storage 1,199.95
- M3DK-4 (2-TM100-4 double headed 80 track drives) provides over 1.4 M Bytes storage 1,399.95

MEMORY SPECIAL FUNCTION

74150	32	74151	32	74152	32	74153	32
74154	32	74155	32	74156	32	74157	32
74158	32	74159	32	74160	32	74161	32
74162	32	74163	32	74164	32	74165	32
74166	32	74167	32	74168	32	74169	32
74170	32	74171	32	74172	32	74173	32
74174	32	74175	32	74176	32	74177	32
74178	32	74179	32	74180	32	74181	32
74182	32	74183	32	74184	32	74185	32
74186	32	74187	32	74188	32	74189	32
74190	32	74191	32	74192	32	74193	32
74194	32	74195	32	74196	32	74197	32
74198	32	74199	32	74200	32	74201	32

74LS00 SERIES - LOW POWER SCHOTTKY

74LS00	27	74LS01	27	74LS02	27	74LS03	27
74LS04	27	74LS05	27	74LS06	27	74LS07	27
74LS08	27	74LS09	27	74LS10	27	74LS11	27
74LS12	27	74LS13	27	74LS14	27	74LS15	27
74LS16	27	74LS17	27	74LS18	27	74LS19	27
74LS20	27	74LS21	27	74LS22	27	74LS23	27
74LS24	27	74LS25	27	74LS26	27	74LS27	27
74LS28	27	74LS29	27	74LS30	27	74LS31	27
74LS32	27	74LS33	27	74LS34	27	74LS35	27
74LS36	27	74LS37	27	74LS38	27	74LS39	27
74LS40	27	74LS41	27	74LS42	27	74LS43	27
74LS44	27	74LS45	27	74LS46	27	74LS47	27
74LS48	27	74LS49	27	74LS50	27	74LS51	27
74LS52	27	74LS53	27	74LS54	27	74LS55	27
74LS56	27	74LS57	27	74LS58	27	74LS59	27
74LS60	27	74LS61	27	74LS62	27	74LS63	27
74LS64	27	74LS65	27	74LS66	27	74LS67	27
74LS68	27	74LS69	27	74LS70	27	74LS71	27
74LS72	27	74LS73	27	74LS74	27	74LS75	27
74LS76	27	74LS77	27	74LS78	27	74LS79	27
74LS80	27	74LS81	27	74LS82	27	74LS83	27
74LS84	27	74LS85	27	74LS86	27	74LS87	27
74LS88	27	74LS89	27	74LS90	27	74LS91	27
74LS92	27	74LS93	27	74LS94	27	74LS95	27
74LS96	27	74LS97	27	74LS98	27	74LS99	27

PRECISION RESISTORS

10K	100	100K	1000	10000	100000	1000000	10000000
100K	1000	10000	100000	1000000	10000000	100000000	1000000000
1000	10000	100000	1000000	10000000	100000000	1000000000	10000000000
10000	100000	1000000	10000000	100000000	1000000000	10000000000	100000000000
100000	1000000	10000000	100000000	1000000000	10000000000	100000000000	1000000000000
1000000	10000000	100000000	1000000000	10000000000	100000000000	1000000000000	10000000000000
10000000	100000000	1000000000	10000000000	100000000000	1000000000000	10000000000000	100000000000000
100000000	1000000000	10000000000	100000000000	1000000000000	10000000000000	100000000000000	1000000000000000
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1000000000000000000000	10000000000000000000000	100000000000000000000000	1000000000000000000000000	10000000000000000000000000	100000000000000000000000000	1000000000000000000000000000	10000000000000000000000000000
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